

Claims

- [c1] 1. A data transfer method for a USB device, comprising:
connecting a USB device to a USB;
determining whether a data transfer rate of a bulk transfer type transmission in the USB is lower than a predetermined value; and
swapping to use an interrupt transfer type transmission in the USB to transfer the data in the USB device when the data transfer rate of the bulk transfer type transmission in the USB is lower than the predetermined value.
- [c2] 2. The data transfer method for the USB device of claim 1, further comprising:
using the bulk transfer type transmission in the USB to transfer the data in the USB device when the data transfer rate of the bulk transfer type transmission in the USB is not lower than the predetermined value.
- [c3] 3. The data transfer method for the USB device of claim 1, further comprising:
after using the interrupt transfer type transmission in the USB to transfer the data in the USB device for a predetermined period of time, swapping to use the bulk transfer type transmission in the USB to transfer the data in the

USB device.

- [c4] 4. The data transfer method for the USB device of claim 1, wherein the predetermined value is a data transfer rate which is guaranteed by the interrupt transfer type transmission in the USB.
- [c5] 5. A data transfer method for a USB device, comprising:
determining whether a data transfer rate of a bulk transfer type transmission in a USB connected to a USB device is lower than a predetermined value; and
selecting an interrupt transfer type transmission in the USB to transfer a data in the USB device when the data transfer rate of the bulk transfer type transmission in the USB is lower than the predetermined value.
- [c6] 6. The data transfer method for the USB device of claim 5, further comprising:
using the bulk transfer type transmission in the USB to transfer the data in the USB device when the data transfer rate of the bulk transfer type transmission in the USB is not lower than the predetermined value.
- [c7] 7. The data transfer method for the USB device of claim 5, further comprising:
after using the interrupt transfer type transmission in the USB to transfer the data in the USB device for a predeter-

mined period of time, swapping to the bulk transfer type transmission in the USB to transfer the data in the USB device.

- [c8] 8. The data transfer method for the USB device of claim 5, wherein the predetermined value is a data transfer rate which is guaranteed by the interrupt transfer type transmission in the USB.